

## Title (en)

SLIDING MEMBER, METHOD FOR MANUFACTURING SAME, AND COMPRESSOR SWASH PLATE USING SLIDING MEMBER

## Title (de)

GLEITELEMENT, VERFAHREN ZU HERSTELLUNG DAVON UND VERDICHTERTAUMELSCHEIBE MIT DEM GLEITELEMENT

## Title (fr)

ÉLÉMENT COULISSANT, SON PROCÉDÉ DE FABRICATION, ET PLATEAU EN BIAIS DE COMPRESSEUR UTILISANT L'ÉLÉMENT COULISSANT

## Publication

**EP 2955023 A4 20161109 (EN)**

## Application

**EP 14749634 A 20140205**

## Priority

- JP 2013021779 A 20130206
- JP 2014052686 W 20140205

## Abstract (en)

[origin: EP2955023A1] The present invention provides the sliding member, method for manufacturing sliding member, and compressor swash plate using sliding member in which adhesion between the substrate and the resin is enhanced, and which has the excellent durability whereby peeling of the resin film from the substrate does not occur due to prolonged sliding even under harsh load conditions. The sliding member (10) provides a substrate (11) irradiated laser light with energy intensity per unit area of 0.053 J/mm<sup>2</sup> or more and configured an uneven part (13) formed toward a vertical direction by the irradiated laser light and a melted and solidified portion on the uneven part (13) and a resin film (12) including solid lubricant and a binder resin on the substrate (11).

## IPC 8 full level

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**C08G 73/14** (2013.01 - EP US); **C08K 3/01** (2017.12 - EP US); **C08K 3/04** (2013.01 - EP US); **C08K 3/30** (2013.01 - EP US); **C09D 161/06** (2013.01 - EP US); **C09D 163/00** (2013.01 - EP US); **C09D 179/08** (2013.01 - EP US); **C10M 103/02** (2013.01 - EP US); **C10M 103/04** (2013.01 - EP US); **C10M 103/06** (2013.01 - EP US); **C10M 111/02** (2013.01 - EP US); **C10M 177/00** (2013.01 - EP US); **F04B 27/0804** (2013.01 - EP US); **F04B 27/086** (2013.01 - EP US); **F04B 27/0886** (2013.01 - EP US); **F04B 27/1054** (2013.01 - EP US); **F04B 39/02** (2013.01 - EP US); **F16C 33/208** (2013.01 - EP US); **C08K 2003/3009** (2013.01 - EP US); **C10M 2201/041** (2013.01 - EP US); **C10M 2201/0413** (2013.01 - EP US); **C10M 2201/05** (2013.01 - EP US); **C10M 2201/061** (2013.01 - EP US); **C10M 2201/065** (2013.01 - EP US); **C10M 2201/066** (2013.01 - EP US); **C10M 2201/0663** (2013.01 - EP US); **C10M 2217/0285** (2013.01 - EP US); **C10M 2217/0443** (2013.01 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2040/02** (2013.01 - EP US); **C10N 2050/08** (2013.01 - EP US); **F05C 2253/12** (2013.01 - EP US); **F05C 2253/20** (2013.01 - EP US)

## C-Set (source: EP US)

1. **C09D 179/08 + C08K 3/04 + C08K 3/30**
2. **C08K 3/01 + C08L 79/00**
3. **C08K 3/04 + C08L 79/00**
4. **C08K 3/30 + C08L 79/00**

## Citation (search report)

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- [Y] WO 2012127759 A1 20120927 - HITACHI LTD [JP], et al
- [Y] EP 1876352 A1 20080109 - TAIHO KOGYO CO LTD [JP]
- [Y] EP 1454678 A1 20040908 - SEIKO INSTR INC [JP]
- [Y] JP 2007192206 A 20070802 - TOYOTA IND CORP
- [A] JP H1058595 A 19980303 - NIKKEN TOSO KOGYO KK
- See references of WO 2014123159A1

## Designated contracting state (EPC)

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## DOCDB simple family (publication)

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